

WHAT IS CLAIMED IS:

1. A vehicle transfer apparatus, which transfers a vehicle body between a conveyance line disposed in a lower-side of the vehicle conveyance line and a conveyance line disposed in an upper-side of the vehicle conveyance line, the vehicle transfer  
5 apparatus comprising:

a stanchion disposed on both sides of the vehicle body;  
a lift-unit, which is provided to each stanchion in the condition that a slide in an up-and-down direction along the  
10 stanchion of the lift-unit is allowed;

a tire supporter which is provided to each lift-unit and supports a tire of the vehicle body in the condition that the lower part of the tire is exposed under the tire supporter.

a lift-unit driver which moves respective lift-units in  
15 an up-and-down direction

a tire supporter driver which controls a linear motion of the tire supporter and changes the position of the tire supporter between a tire support position and a passing  
position.

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2. A vehicle transfer apparatus according to claim 1, wherein the tire supporter comprising:

a pair of chucking arms; and  
an arm driver which controls an open-and-shut motion of  
25 chucking arms and changes the position of the pair of chucking arms between a tire holding position and a tire release

position.

3. A vehicle transfer apparatus according to claim 2, wherein  
a part of the chucking arm that has contact with the tire  
5 is a rotatable roller.